

b) means to determine the location of said identified contents within said passenger compartment; and
c) output means in response to said location determination to affect at least one other system within said vehicle.

21 (amended). The invention in accordance with claim 20[, said vehicle further comprising a rear seat,] wherein said at least one other system is an airbag system for frontal impact protection of the occupants of the front seat of the vehicle.

22 (amended). The invention in accordance with claim 20, said vehicle further comprising a rear seat, wherein said at least one other system is an airbag system for frontal impact protection of the occupants of the rear seat of the vehicle.

24 (amended). The invention in accordance with claim 20 further comprising means to compare the position of said occupant at different times after an accident and to thereby determine motion of said occupants and wherein said at least one other system is a vehicle communication system.

26(amended). The invention in accordance with claim 20 wherein said at least one other system is a gas generator of an airbag system, said gas generator being of the variable inflation type and said invention further comprising means to control the inflation rate of said variable inflation rate inflator based on the position of said occupant.

27 (amended). The invention in accordance with claim 20 wherein said at least one other system is an electronic crash sensor for an airbag system, said sensor having a

settable threshold triggering level and said invention further comprising means to determine seatbelt usage of the occupant, said seatbelt usage being a factor in the setting of the sensor threshold.

28 (twice amended). In a motor vehicle having an interior passenger compartment having contents comprising [objects and] at least one occupant, each said occupant having at least one part,

an interior monitoring system comprising:

a) Pattern recognition means to detect the presence of and to identify said at least one occupant, said mean comprising: (i) means to illuminate at least each said occupant whose said at least one part is to be identified, and (ii) a trained pattern recognition means, said trained pattern recognition means having been trained on data of said at least one occupant;

b) means to determine the location of said at least one part of said at least one occupant within said passenger compartment; and

c) output means in response to said location determination to affect at least one other system within said vehicle.

33(amended). The invention in accordance with claim 28 wherein said at least one part of said at least one occupant are the eyes.

34 (amended). The invention in accordance with claim 28 wherein said at least one other system is a rear view mirror.

35 (amended). The invention in accordance with claim 28 wherein said at least one other system is an adjustable seatbelt anchorage system.

36 (amended). The invention in accordance with claim 28 wherein said at least one other system is an adjustable headrest system.

47 (twice amended). In a motor vehicle having an interior passenger compartment having doors, windows and containing objects, an interior monitoring system comprising:

- a) Means to illuminate a portion of said vehicle passenger compartment with energy at at least one frequency;
- b) Resonator means, responsive to said illumination, attached to at least one of said doors, windows, and objects having a resonant frequency at substantially nearly the same frequency as said at least one illumination frequency;
- c) Means to receive resonant illumination from said resonator means;
- d) Trained pattern recognition means to process said received resonant illumination to determine the location of said illuminated resonator; and,
- e) Output means in response to said illuminated resonator location determination to affect said at least one other system within said vehicle.

Add claim 68:

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68. The invention of claim 19 wherein said trained pattern recognition means comprises at least one neural network.

In claim 63, line 1, please delete "1", and substitute in its stead --19 --;

OTHER MATTERS

The Applicant filed a Preliminary Amendment with his Response to Requirement for Restriction, filed Feb. 28, 1995, which added 5 claims, numbered 63-67. It appears that they have not been entered, nor processed, as additional